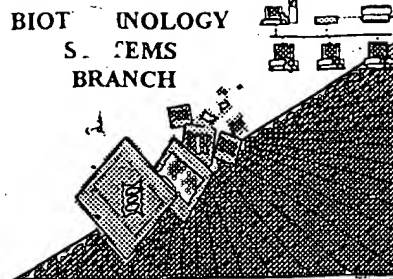BIOT   NOLOGY
S   TEMS
BRANCH

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09|981, 206

Source: OIPE

Date Processed by STIC: 11|2|01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

<u>Checker Version 3.0 can be down loaded from the USPTO website at the following address:</u>
http://www.uspto.gov/web/offices/pac/checker

```
        RAW SEQUENCE LISTING              DATE: 11/02/2001
        PATENT APPLICATION:  US/09/981,206   TIME: 15:26:24

        Input Set : A:\es.txt
        Output Set: N:\CRF3\11022001\I981206.raw
```

**Does Not Comply
Corrected Diskette Needed**

Errors on pp. 1-3

```
     3 <110> APPLICANT: Achilefu, Samuel I.
     4        Rajagopalan, Raghavan
     5        Dorshow, Richard B.
     6        Bugaj, Joseph E.
     8        Mallinckrodt Inc.
    10 <120> TITLE OF INVENTION: Carbocyanine Dyes For Tandem, Photodiagnostic
    11        and Therapeutic Applications
    13 <130> FILE REFERENCE: MRD-74
C-->15 <140> CURRENT APPLICATION NUMBER: US/09/981,206
    16 <141> CURRENT FILING DATE: 2001-10-17
W-->18 <150> PRIOR APPLICATION NUMBER:
W-->19 <151> PRIOR FILING DATE:
    21 <160> NUMBER OF SEQ ID NOS: 8
    23 <170> SOFTWARE: PatentIn Version 3.1
    25 <210> SEQ ID NO: 1
    26 <211> LENGTH: 8
    27 <212> TYPE: PRT
    28 <213> ORGANISM: Artificial Sequence
    30 <220> FEATURE:
W-->31 <221> NAME/KEY: MOD RES
    32 <222> LOCATION: (1)...(8)
    33 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence is
    34        completely synthesized.
    35 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
    36        intramolecular disulfide bond between two Cys
    37        amino acids. Artificial sequence is completely synthesized.
    38 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence is
    39        completely synthesized.
    41 <400> SEQUENCE: 1
W-->42 Xaa Xaa Tyr Xaa Lys Thr Xaa Thr
    43   1               5
    47 <210> SEQ ID NO: 2
    48 <211> LENGTH: 8
    49 <212> TYPE: PRT
    50 <213> ORGANISM: Artificial Sequence
    52 <220> FEATURE:
W-->53 <221> NAME/KEY: MOD RES
    54 <222> LOCATION: (1)...(8)
    55 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence is
    56        completely synthesized.
    57 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an
    58        intramolecular disulfide bond between two Cys
    59        amino acids. Artificial sequence is completely synthesized.
    61 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence is
    62        completely synthesized.
    63 <223> OTHER INFORMATION: Xaa at location 8 represents Thr-OH. Artificial sequence is
    64        completely synthesized.
```

Do not respond/ if no other prior application include

→ put underscore between MOD + RES → MOD_RES

```
                   RAW SEQUENCE LISTING          DATE: 11/02/2001
                   PATENT APPLICATION:  US/09/981,206    TIME: 15:26:24

                   Input Set : A:\es.txt
                   Output Set: N:\CRF3\11022001\I981206.raw
```

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        66 <400> SEQUENCE: 2
W--> 67    Xaa Xaa Tyr Xaa Lys Thr Xaa Xaa
        68   1                 5
        71 <210> SEQ ID NO: 3
        72 <211> LENGTH: 11
        73 <212> TYPE: PRT
        74 <213> ORGANISM: Peptide         — invalid; see error summary sheet, item 10
        76 <400> SEQUENCE: 3
        77    Gly Ser Gly Gln Trp Ala Val Gly His Leu Met
        78   1                 5                 10
        81 <210> SEQ ID NO: 4
        82 <211> LENGTH: 11
        83 <212> TYPE: PRT
        84 <213> ORGANISM: Peptide      — same
        86 <400> SEQUENCE: 4
        87    Gly Asp Gly Gln Trp Ala Val Gly His Leu Met
        88   1                 5                 10
        92 <210> SEQ ID NO: 5
        93 <211> LENGTH: 8
        94 <212> TYPE: PRT
        95 <213> ORGANISM: Peptide      — same
        97 <400> SEQUENCE: 5
        98    Asp Tyr Met Gly Trp Met Asp Phe
        99   1                 5
       102 <210> SEQ ID NO: 6
       103 <211> LENGTH: 8
       104 <212> TYPE: PRT
       105 <213> ORGANISM: Artificial Sequence
       107 <220> FEATURE:
W--> 108 <221> NAME/KEY: MOD RES
       109 <222> LOCATION: (1)...(8)
       110 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine. Artificial
       111        sequence is completely synthesized.
       113 <400> SEQUENCE: 6
W--> 114   Asp Tyr Xaa Gly Trp Xaa Asp Phe
       115   1                 5
       118 <210> SEQ ID NO: 7
       119 <211> LENGTH: 8
       120 <212> TYPE: PRT
       121 <213> ORGANISM: Artificial Sequence
       123 <220> FEATURE:
W--> 124 <221> NAME/KEY: MOD RES
       125 <222> LOCATION: (1)...(8)
       126 <223> OTHER INFORMATION: Xaa at location 1 represents D-Asp. Artificial sequence is
       127        completely synthesized.
       128 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine. Artificial
       129        sequence is completely synthesized.
       131 <400> SEQUENCE: 7
W--> 132   Xaa Tyr Xaa Gly Trp Xaa Asp Phe
```

RAW SEQUENCE LISTING   DATE: 11/02/2001
PATENT APPLICATION: US/09/981,206   TIME: 15:26:24

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11022001\I981206.raw**

```
133   1                5
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 8
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <221> NAME/KEY: MOD RES
144 <222> LOCATION: (1)...(8)
145 <223> OTHER INFORMATION: Xaa at location 1 represents D-Lys. Artificial sequence is
146       completely synthesized.
148 <400> SEQUENCE: 8
149  Xaa Pro Arg Arg Pro Tyr Ile Leu
150   1                5
```
W--> 143
W--> 149

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/981,206

DATE: 11/02/2001
TIME: 15:26:25

Input Set : **A:\es.txt**
Output Set: **N:\CRF3\11022001\I981206.raw**

L:15 M:270 C: Current Application Number differs, Replaced Application Number
L:18 M:256 W: Invalid Numeric Header Field, <150> PRIOR APPLICATION NUMBER:
L:19 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:31 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:53 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:124 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:143 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8